## **Annexes**

The following seven annexes provide additional information related to the material presented in the main body of this report as directed in the *UNFCCC Guidelines on Reporting and Review* (GE.03-60887). Annex 1 contains an analysis of the key sources of emissions discussed in this report and a review of the methodology used to identify those key sources. Annex 2 describes the methodologies used to estimate  $CO_2$  emissions from fossil fuel combustion, the carbon content of fossil fuels, and the amount of carbon stored in products from non-energy uses of fossil fuels. Annex 3 discusses the methodologies used for a number of individual source categories in greater detail than was presented in the main body of the report and includes explicit activity data and emission factor tables. Annex 4 presents the IPCC reference approach for estimating  $CO_2$  emissions from fossil fuel combustion. Annex 5 addresses the criteria for the inclusion of an emission source category and discusses some of the sources that are excluded from U.S. estimates. Annex 6 provides a range of additional information that is relevant to the contents of this report. Finally, Annex 7 provides data on the uncertainty of the emission estimates included in this report.

## **List of Annexes**

Annexes		1
ANNEX 1	1 Key Source Analysis	3
ANNEX 2	2 Methodology and Data for Estimating CO₂ Emissions from Fossil Fuel Combustion	29
2.1.	Methodology for Estimating Emissions of CO <sub>2</sub> from Fossil Fuel Combustion	29
2.2.	Methodology for Estimating the Carbon Content of Fossil Fuels	
2.3.	Methodology for Estimating Carbon Emitted from Non-Energy Uses of Fossil Fuels	78
ANNEX 3	3 Methodological Descriptions for Additional Source or Sink Categories	101
3.1.	Methodology for Estimating Emissions of CH <sub>4</sub> , N <sub>2</sub> O, and Ambient Air Pollutants from Stationary Combustion	101
3.2.	Methodology for Estimating Emissions of CH <sub>4</sub> , N <sub>2</sub> O, and Ambient Air Pollutants from Mobile Combustion	and
	Methodology for and Supplemental Information on Transportation-Related Greenhouse Gas Emissions	108
3.3.	Methodology for Estimating CH <sub>4</sub> Emissions from Coal Mining	136
3.4.	Methodology for Estimating CH <sub>4</sub> Emissions from Natural Gas Systems	143
3.5.	Methodology for Estimating CH <sub>4</sub> Emissions from Petroleum Systems	147
3.6.	Methodology for Estimating CO <sub>2</sub> and N <sub>2</sub> O Emissions from Municipal Solid Waste Combustion	150
3.7.	Methodology for Estimating Emissions from International Bunker Fuels used by the U.S. Military	154
3.8.	Methodology for Estimating HFC and PFC Emissions from Substitution of Ozone Depleting Substances	158
3.9.	Methodology for Estimating CH <sub>4</sub> Emissions from Enteric Fermentation	
3.10.	Methodology for Estimating CH <sub>4</sub> and N <sub>2</sub> O Emissions from Manure Management	177
3.11.	Methodology for Estimating N <sub>2</sub> O Emissions from Agricultural Soil Management.	197
3.12.	Methodology for Estimating Net Carbon Stock Changes in Forest Lands Remaining Forest Lands	
3.13.	Methodology for Estimating Net Changes in Carbon Stocks in Mineral and Organic Soils	218
3.14.	Methodology for Estimating CH <sub>4</sub> Emissions from Landfills	231
	4 IPCC Reference Approach for Estimating CO <sub>2</sub> Emissions from Fossil Fuel Combustion	
ANNEX 5	5 Assessment of the sources and sinks of greenhouse gas emissions excluded	247
	6 Additional Information	
6.1.	Global Warming Potential Values	
6.2.	Ozone Depleting Substance Emissions	262
6.3.	Sulfur Dioxide Emissions	
6.4.	Complete List of Source Categories	
6.5.	Constants, Units, and Conversions	
6.6.	Abbreviations	
6.7.	Chemical Formulas	
6.8.	Glossary	
ANNEX 7	7 Uncertainty	
7.1.	Overview	
7.2.	Methodology and Results	
7.3.	Uncertainty Estimation as a Process	
7.4.	Planned Improvements	300

